

CLAIMS

Now, therefore, the following is claimed:

1 1. A system for supporting wireless communication equipment, comprising:
2 a foundation;
3 a guyed tower fixedly attached to said foundation; and
4 a pole tower fixedly attached to said foundation and extending through a middle region
5 of said guyed tower.

1 2. The system of claim 1, wherein said pole tower is separated from an inner
2 periphery of said guyed tower by about one-quarter of an inch.

1 3. The system of claim 1, wherein said pole tower is fixedly attached to said
2 guyed tower.

1 4. The system of claim 1, further comprising communication equipment attached
2 to said pole tower.

1 5. The system of claim 1, wherein said pole tower is sectional.

1 6. The system of claim 1, wherein said pole tower is hollow.

1 7. The system of claim 1, wherein said guyed tower is comprised of at least two
2 joined guyed tower sections, and wherein said pole tower is fixedly attached to said guyed
3 tower at a midpoint of one of said sections.

1 8. The system of claim 1, wherein said guyed tower is comprised of at least two
2 joined guyed tower sections, and wherein said pole tower is fixedly attached to said guyed
3 tower at an interface between said guyed tower sections.

1 9. The system of claim 1, wherein said guyed tower has a bottom end and a top
2 end opposite of said bottom end, said bottom end fixedly attached to said foundation, and
3 wherein said pole tower extends from said foundation to said top end of said guyed tower.

1 10. The system of claim 9, wherein said top end of said pole tower extends through
2 said top end of said guyed tower, said top end of said pole tower having communication
3 equipment mounted thereto at a point above said top end of said guyed tower.

1 11. A system for supporting wireless transmission equipment, comprising:
2 a foundation;
3 a guyed tower fixedly attached to said foundation; and
4 a means for absorbing bending moments that act on said guyed tower, said absorbing
5 means fixedly attached to said foundation and extending through a middle region of said
6 guyed tower.

12. The system of claim 11, wherein said absorbing means is separated from an inner periphery of said guyed tower by about one-quarter of an inch.

13. The system of claim 11, wherein said absorbing means is fixedly attached to said guyed tower.

14. The system of claim 11, further comprising communication equipment attached to said absorbing means.

15. The system of claim 11, wherein said guyed tower is comprised of at least two joined guyed tower sections, and wherein said absorbing means is fixedly attached to said guyed tower at a midpoint of one of said sections.

16. The system of claim 11, wherein said guyed tower is comprised of at least two joined guyed tower sections, and wherein said absorbing means is fixedly attached to said guyed tower at an interface between said guyed tower sections.

17. The system of claim 11, wherein said guyed tower has a bottom end and a top end opposite of said bottom end, said bottom end fixedly attached to said foundation, and wherein said absorbing means extends from said foundation to said top end of said guyed tower.

1 18. The system of claim 17, wherein said absorbing means extends through said
2 top end of said guyed tower, said absorbing means having communication equipment
3 mounted thereto at a point above said top end of said guyed tower.

1 19. A method for supporting wireless communication equipment, comprising the
2 steps of:

3 erecting a guyed tower;
4 fixedly attaching said guyed tower to a foundation;
5 erecting a pole tower within a middle region of said guyed tower; and
6 fixedly attaching said pole tower to said foundation.

1 20. A method for increasing a load capacity of a guyed tower, said guyed tower
2 fixedly attached to a foundation, comprising the steps of:

3 erecting a pole tower within a middle region of said guyed tower; and
4 fixedly attaching said pole tower to said foundation.

1 21. The method of claim 20, further comprising the step of:
2 fixedly attaching said pole tower to said guyed tower.

1 22. The method of claim 20, further comprising the step of:
2 attaching communication equipment to said pole tower.

1 23. The method of claim 20, wherein said guyed tower is comprised of at least two
2 joined guyed tower sections, and wherein said method further comprises the step of:
3 fixedly attaching said pole tower to said guyed tower at a midpoint of one of said
4 sections.

1 24. The method of claim 20, wherein said guyed tower is comprised of at least two
2 joined guyed tower sections, and wherein said method further comprises the step of:
3 fixedly attaching said pole tower to said guyed tower at an interface between said
4 guyed tower sections.

1 25. The method of claim 20, wherein said guyed tower has a bottom end and a top
2 end opposite of said bottom end, said bottom end fixedly attached to said foundation, and
3 wherein said erected pole tower extends from said foundation to said top end of said guyed
4 tower.

1 26. The method of claim 25, wherein said erected pole tower extends through said
2 top end of said guyed tower, said method further comprising the step of:
3 attaching communication equipment to said erected pole tower at a point above said
4 top end of said guyed tower.

27. The method of claim 20, wherein said pole tower is sectional, wherein said
guyed tower has a bottom end and a top end opposite of said bottom end, said bottom end
fixedly attached to said foundation, and wherein said erecting step includes the steps of:
lowering a bottom section of said pole tower from said top end through said guyed
tower to said foundation;
lowering another section of said pole tower from said top end through said guyed
tower to said bottom section; and
securing said bottom section to said other section.

28. The method of claim 27, wherein said securing step includes the step of
inserting a portion of said bottom section into a hollow region of said other section.

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